

Title (en)

Assemblies and apparatus related to integrating late lean injection into combustion turbine engines

Title (de)

Anordnungen und Vorrichtung im Zusammenhang mit der Integration später Magergemischeinspritzung in Turbinenverbrennungsmotoren

Title (fr)

Ensembles et appareil se rapportant à l'intégration de l'injection pauvre tardive des moteurs de turbine à combustion

Publication

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Application

EP 12178845 A 20120801

Priority

US 201113204369 A 20110805

Abstract (en)

A transfer tube (34) for use in a late lean injection system of a combustor, wherein the combustor includes an inner radial wall (24), which defines a primary combustion chamber downstream of a primary fuel nozzle, and an outer radial wall (26), which surrounds the inner radial wall forming a flow annulus (27) therebetween, the outer radial wall including a late lean nozzle (33) and a transfer tube (34) including flow directing structure that defines a fluid passageway. At a first end (45), the flow directing structure may include an inlet and attachment means (41) that attach the transfer tube (34) to the late lean nozzle (33). The flow directing structure may have a configuration such that the fluid passageway spans the flow annulus (27) and positions the outlet at a desirable injection point in the inner radial wall (24).

IPC 8 full level

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CPC (source: EP US)

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